

CLAIMS

What is claimed is:

1. 1. A seal system comprising:
 2. at least one dock pad, the at least one dock pad comprising:
 3. a backing structure having a front portion and an opposing rear portion;
 4. a first foam layer coupled to the rear portion of the backing structure to provide a seal between a building surface and the dock pad; and
 5. a second foam layer coupled to the front portion of the backing structure to provide a seal between the dock pad and a vehicle.
1. 2. The seal system of claim 1, wherein the at least one dock pad further comprises a theft deterrence component to substantially enclose the second foam layer.
1. 3. The seal system of claim 2, wherein the theft deterrence component is a metal structure.
1. 4. The seal system of claim 2, wherein the theft deterrence component is a chain link fence.
1. 5. The seal system of claim 1, further comprising a removable cover that substantially covers exposed portions of the at least one dock pad.
1. 6. The seal system of claim 5, wherein the removable cover comprises at least one of Vinyl, Hypalon, and Neoprene.
1. 7. The seal system of claim 1, wherein at least one of the first and second foam layers is formed from flexible foam.
1. 8. The seal system of claim 1, wherein at least one of the first and second foam layers is formed from polyurethane foam.

1 9. The seal system of claim 1, wherein at least one of the first and second foam
2 layers has a density of about 1-2 lb/ft³.

1 10. The seal system of claim 1, wherein at least one of the first and second foam
2 layers has a compression factor of about 30 lb.

1 11. The seal system of claim 1, wherein at least one of the first and second foam
2 layers has a resilience from about +180 F to about -50 F.

1 12. The seal system of claim 1, wherein at least one of the first and second foam
2 layers is constructed of three-stage foam.

1 13. The seal system of claim 1, wherein the backing structure is constructed from
2 steel.

1 14. The seal system of claim 1, further comprising at least one mounting bracket for
2 coupling the at least one dock pad to the building, the mounting bracket having one long
3 leg and two short legs.

1 15. The seal system of claim 14, wherein the two short legs have different lengths to
2 provide clearance for a rib structure on the building surface.

1 16. The seal system of claim 14, wherein the at least one mounting bracket is
2 adjustable via a slotted aperture.

1 17. The seal system of claim 1, wherein the at least one dock pad includes a plurality
2 of pleats to mitigate abrasion on the at least one dock pad.

1 18. The seal system of claim 17, wherein the configuration of pleats depends on a
2 type of exposure to the at least one dock pad.

1 19. A seal system comprising:

2 at least one dock pad, the at least one dock pad comprising:

3 a backing structure;

4 a foam layer secured to the backing structure; and

5 a theft deterrence component substantially covering at least one side of the

6 foam layer.

1 20. The seal system of claim 19, wherein the theft deterrence component is a chain

2 link fence.

1 21. The seal system of claim 19, wherein the theft deterrence component is secured to

2 a first end portion of the backing structure, wrapped around the foam layer, and secured

3 to a second end portion of the backing structure, such that the foam layer is substantially

4 enclosed by the theft deterrence component.

1 22. A seal system comprising:

2 at least one dock pad having a backing structure and at least one foam layer; and

3 a plurality of mounting brackets to secure the at least one dock pad to a building;

4 wherein each of the mounting brackets forms a U-shaped channel having one long leg

5 and two short legs, the two short legs having different lengths.

1 23. The seal system of claim 22, wherein the long leg of the mounting brackets is

2 secured to the building and the short legs are secured to the backing structure.

1 24. The seal system of claim 22, wherein the mounting brackets are manufactured

2 from 6 to 20 gauge steel.

1 25. The seal system of claim 22, wherein each of the mounting brackets includes a

2 slot formed therein for adjustability.

1 26. A seal system comprising:

2 means for providing a substantially air tight seal between a dock pad and a

3 building surface;

4 means for providing a seal between the dock pad and a rear portion of a vehicle;

5 and

6 means for providing rigidity to the dock pad.

1 27. The seal system of claim 26, further comprising means for deterring theft.